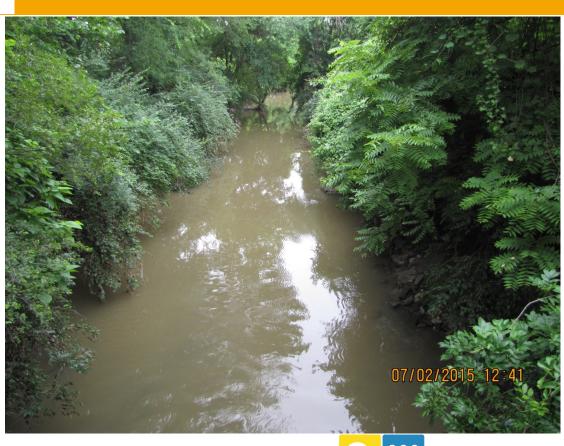


## FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM OVERSITE AND MONITORING COOPERATIVE AGREEMENT

2nd Quarter: April Through June 2015 Report





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**COVER PHOTO:** Coldwater Creek at St. Cin Park in Hazelwood, MO. USACE began preparations to remediate portions of the park during this quarter.

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St. Cin Park in Hazelwood, another view. Near the end of the quarter, USACE cordoned off the areas they were going to excavate in the coming months. Excavation of contaminated soil will begin in the next quarter and is expected to take 2 - 4 months, weather permitting.

# History of the Formerly Utilized Sites Remedial Action Program Sites

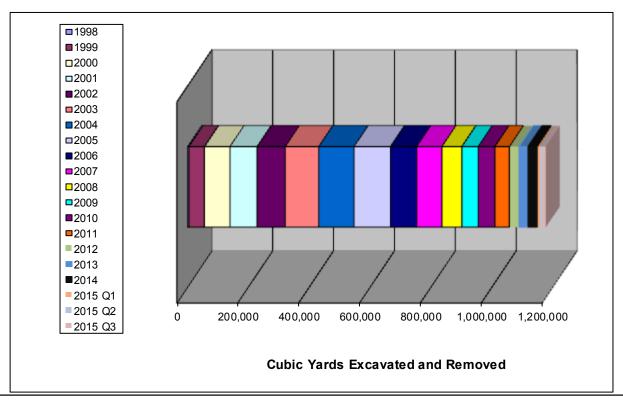
The St. Louis Downtown Site (SLDS) processed uranium for the nation's early atomic energy program. In 1946, the U.S. Department of Energy's (DOE) predecessor agencies began utilizing the St. Louis Airport Site (SLAPS) as a storage area for radioactive wastes and processed residues, the majority of which originated at the SLDS. Methods of storage at the SLAPS included both uncovered bulk storage piles and materials containerized in drums. In 1966 the materials at the SLAPS were sold by the Atomic Energy Commission (AEC) and were shipped to a facility at 9200 Latty Avenue (Futura), where the majority of the material was dried and shipped to out-of-state processing facilities. 8,700 tons of radioactively contaminated barium sulfate processed waste were mixed with 39,000 tons of soil and disposed of at West Lake Landfill in 1973. (West Lake Landfill is being addressed separately from the FUSRAP.)

Processing, transportation, storage, and management practices during the above-stated period led to the contamination of the three major FUSRAP sites: SLDS, SLAPS, and the Hazelwood Interim Storage Site (HISS)/ Futura, with the latter two sites being placed on the National Priorities List (NPL) in 1989. In addition, approximately 78 contaminated vicinity properties have been identified as SLAPS Vicinity Properties (VPs).

On October 13, 1997, the Energy & Water Appropriations Bill transferred the responsibility for the remediation of FUSRAP properties from the DOE to the U. S. Army Corps of Engineers (USACE). The total volumes of contaminated soils, sediments and debris at St. Louis FUSRAP sites were estimated to have been about 1.1 million cubic yards. USACE has already excavated more soil than had been originally estimated.

## **Status of Work Completed This Quarter**

MAJOR AREA	SPECIFIC SITES	WORK DESCRIPTION	
North County (NC)	SLAPS Vicinity Properties	Sampling and remediation of portions of VP57 and VP58 in preparation of an MSD project neared completion. Preparation for remediation work at St. Cin Park along Coldwater Creek began. Sampling of Coldwater Creek between Frost and St. Denis Bridge continued. The volume of soil removed from the vicinity properties this quarter was about 4,045 yd <sup>3</sup> .	
North County (NC)	HISS/Futura and Latty Ave. Vicinity Properties	Most remediation work has been completed on these properties, although final documentation of this status has not yet been completed. No soil or debris was shipped from these properties during the quarter.	
Saint Louis Downtown Sites (SLDS)	Saint Louis Downtown Site and Vicinity Properties	Building 101 excavation at Plant 6 West Half continued during the quarter. Utility supports of Mallinckrodt excavations within the plant 7W/700 Pad area continued. Additional sampling for a remedial investigation addendum for the SLDS was being considered. The volume of soil removed from St. Louis Downtown Sites in this quarter was about 7,724 yd <sup>3</sup> .	
NON-SITE SPECIFIC		19 utility support operations were undertaken by the USACE during the quarter. The total volume of soil and debris removed this quarter for the entire St. Louis FUSRAP project was about 11,268 yd <sup>3</sup> . (For reference, during Federal Fiscal Year 2014 about 30,740 yd <sup>3</sup> of material was removed from all St. Louis FUSRAP project sites.)	



Years and quarters on this chart are based on the Federal Fiscal Year (FFY). For example, FFY 2015 is October 1, 2014, through September 30, 2015.

## **Work Performed by Department Personnel**

#### **DOCUMENT REVIEWS**

The Missouri Department of Natural Resources' Federal Facilities Section (FFS) provides technical review on major decision documents, work plans, pre-design investigation reports, remedial designs, and post remedial action reports.

Comments are submitted to the USACE for response and become part of the public record. Listed below are both documents reviewed by the Department during this quarter and documents previously reviewed for which some resolution of comments occurred or is pending.

## 1. "Third Five year Review Report for the FUSRAP St. Louis Sites," Revision B, dated December 5, 2014.

The Department reviewed the draft document. DHSS review of the document continues. The Department requested more specifics on utility and property owner outreach; we asked for more frequent contact of entities including property owners and city management to prevent miscommunications regarding status of properties. We asked that the document include consideration of interim institutional controls use. The Department recommended adding information on status to the included tables of properties and expanded discussions in several sections. We asked for USACE to consider publishing this report on the FUSRAP web pages. Preliminary comments were transmitted February 27, 2015; DHSS comments will be transmitted upon completion of their review.

#### **DOCUMENT REVIEWS (CONTINUED)**

2. "Pre-Design Investigation Summary Report for St. Cin Park, the Archdiocese of St. Louis Property. And Duchesne Park," Revision B, dated May 11, 2015

The Department and Missouri Department of Health and Senior Services (DHSS) reviewed this document. DHSS did independent modeling of the risk posed by the properties considering the current configuration to determine that they posed low risk to the public prior to remediation at the contamination levels found. This comment was transmitted on June 16, 2015.

3. "Remedial Design/Remedial Action Work Description for St. Cin Park, Supplement 2 to the remedial Action Work Plan Coldwater Creek Properties," Revision B, dated May 22, 2015.

The Department reviewed the draft document. Additional detail was requested on the perimeter fencing for the project and on the notification signs for the public. USACE was asked to keep the municipality informed of the work, and the department requested USACE ensure their contractor minimizes fugitive dust from excavation and other operations at the site.

4. "Destrahan Street-East 7W-North Remedial Action Work Area-Specific Description and Design Package, FUSRAP St. Louis Downtown Site. St. Louis, Missouri," Revision 0, dated April 27, 2015.

The Department had no comments on this final document. USACE considered and responded to our comments on the draft version of this document. Responses provided on the draft document comments were reviewed and determined to be acceptable.

5. "Community Involvement Plan for the St. Louis FUSRAP Sites," Revision 0, dated May 2015.

The Department had no comments on this final document. USACE considered and responded to our comments on the draft version of this document. Responses provided on the draft document comments were reviewed and determined to be acceptable.

#### SITE OBSERVATIONS

Field personnel conduct site visits to observe and document the status of remedial actions, environmental monitoring, contaminant migration prevention and pre-design investigations. USACE personnel are immediately notified of findings, and reports are filed for public record.

The following site visits were conducted on these dates during this quarter:

SPECIFIC SITES	APRIL	MAY	JUNE
North County Sites (HISS/Futura, SLAPS, and Vicinity Properties)	1, 3, 15, 16, 22	28	4, 6, 24
SLDS		13	24

#### **SAMPLING**

Samples are obtained by Department personnel and shipped to a contract laboratory for analysis. The purposes of sample collection include confirmation of results from remedial actions, storm water controls/treatment, and investigating locations of potential concern.

#### Department of Natural Resources St. Ferdinand Park Sampling

Due to specific questions regarding the risk of exposure to the public, the department obtained surface samples from 11 drainage locations near Coldwater Creek in the St. Ferdinand Park. These samples were taken on May 28 and June 4. The samples have been analyzed, and our results are available upon request. No contamination above project remediation goals was found. USACE will perform their normal detailed sampling of the park in the future according to their planned schedule in order to determine if any remediation may be required.

#### **COMMUNITY RELATIONS**

Department personnel are available for questions, requests for information, or as a means of submitting comments and concerns. It is our goal to encourage community involvement and ensure that the concerns of the citizens of Missouri are addressed. Special requests regarding field oversight, research and presentations are welcome.

Contact the Federal Facilities Section at (573) 751-3907 for assistance.

#### **OVERSIGHT COMMITTEE**

The St. Louis Oversight Committee meets periodically to get updates on current remediation work, discuss the history of the sites, and to be briefed on USACE future plans and provide community feedback to USACE. The St. Louis Oversight Committee last held a public meeting on January 29, 2015. The next public meeting of the committee will be on August 20, 2015, 6-8 PM at the Hazelwood Civic Center East, 8969 Dunn Road, Hazelwood. USACE will give a briefing, St. Louis County Health Department will give an update on their efforts regarding Coldwater Creek and Bridgeton Landfill, Department of Natural Resources will present St. Ferdinand Park results, and community activist Kim Visintine will present an update of an informal health survey self-report of residents map. A current contact for the St. Louis Oversight Committee is Carl Chappell at (Cfchappell@sbcglobal.net).

#### USACE PUBLIC MEETING ON COLDWATER CREEK PARK REMEDIATIONS

USACE held a public open house and poster session on June 24, 2015. USACE had displays regarding sampling efforts to date along Coldwater Creek from Frost to St. Denis Bridge which is expected to be completed in early 2016. Later in 2016, USACE will begin sampling along Coldwater Creek from St. Denis Bridge to New Halls Ferry Road. Sampling to date has revealed contaminated areas in St. Cin Park, Duchesne Park, and an Archdiocese property adjacent to Saint Ferdinand Cemetery that will need to be remediated. USACE has prioritized these cleanups. St. Louis Oversight Committee and St. Louis County Department of Health also had displays at this meeting. USEPA, USATSDR, and the Department also attended the open house to hear community concerns. The Department handed out results of our St. Ferdinand Park sampling to interested community members as well as the St. Louis Oversight Committee at the open house.

#### REGULATORS COORDINATION MEETINGS

Personnel from the EPA, the USACE, and the Department periodically meet in person and by conference call to discuss site status, document schedules, landowner assistance projects and other similar issues. These coordination meetings are beneficial, as they keep the parties informed of site status, allow for discussion of cleanup issues,

#### **USACE REMEDIAL ACTIONS**

#### NORTH COUNTY

- Characterization sampling of Pershall Rd. was on hold during the quarter. Preparation for remediation at St. Cin Park in Hazelwood began.
- Characterization sampling of Coldwater Creek between Frost Ave. and St. Denis bridge continued.
- VP 57/58 characterization sampling and remediation in preparation for an MSD project neared completion during the quarter.

#### ST. LOUIS DOWNTOWN SITE

- Plant 6 (Mallinckrodt) excavation of soils underlying building 101 continued during the quarter.
- Utility supports were completed during the quarter.
- USACE considered additional sampling requirements for an remedial investigation addendum.



Plant 6 West Half Building 101 at SLDS. The second highest rainfall for June was recorded in 2015; water management in excavations was a continuing challenge. Water from excavations is filtered and sampled prior to discharge to MSD for further treatment. USACE remediation of these areas is expected to continue into the next quarter.

## **Tasks and Goals for Next Quarter**

#### **NORTH COUNTY**

- USACE characterization sampling of Coldwater Creek between Frost Ave. and St. Denis bridge may continue.
- USACE Pershall Road characterization sampling may be completed. Banshee Rd. additional verification sampling may begin.
- USACE will begin remediation at St. Cin Park adjacent to Coldwater Creek.
- USACE may further remediate at VP57/ VP58 west of Coldwater Creek and South of Pershall Rd. in support of MSD planned work.

#### ST. LOUIS DOWNTOWN SITE

- USACE remediation of DT-2 (City Property) may continue. This work is currently expected to be completed in mid-2016.
- USACE Plant 6/building 101 area soil excavation will continue. This work is currently expected to be completed mid-2015.
- Support of utility excavation activities at the St. Louis Downtown Sites will continue.
- Additional sampling locations for a remedial investigation addendum may be identified and sampled.

#### **DOCUMENT REVIEWS**

Review of the following documents and data are potentially anticipated during the next quarter.

#### **NORTH COUNTY**

- Remedial Design/Remedial Action Work Description for Duchesne Park
- Final North County Institutional Controls Plan
- Coldwater Creek Frost to St. Denis Pre-Design Investigation Report

#### ST. LOUIS DOWNTOWN SITE

- ESD for Kiesel Hall Street Area Expansion
- Kiesel Hall Street Property Post Remedial Action Report

#### SITE OBSERVATIONS AND SAMPLING

Our on-going role in providing site observations and sampling investigations will continue as per previous quarters.

#### **DEPARTMENT PROJECTS**

Staff will continue to work on committees affiliated with long-term stewardship (also known as LTS), Groundwater, and the 5-year review.

#### LONG-TERM STEWARDSHIP

Long-term stewardship applies to sites and properties where long-term management of contaminated environmental media is necessary to protect human health and the environment over time. This generally includes the establishment and maintenance of physical and legal controls, implementation entities, authorities, accountability mechanisms, information and data management systems, and other resources. The need for long-term stewardship will exist for areas of inaccessible contamination at both the North St. Louis County and Downtown Properties located under roads, railroads, buildings and other similar structures deemed by the current owners to be vital or in-use. It also exists for portions of the downtown site for which Remediation Goals are deemed suitable for industrial uses. Completion of the project is expected by 2020, and this will be followed by a two-year transitional period to transfer responsibility from the USACE to the U.S. Department of Energy.

## **Financial Reporting**

The Department's Hazardous Waste Program submits a financial report separate from this document. The report includes costs incurred during the reporting period with request for reimbursement forms.

## **Status of Work Completed This Quarter**

\* USACE Cooperative Agreement funds were not used for all of the staff listed as participating in this training, conference, or meeting;

<sup>\*\*</sup> USACE Cooperative Agreement funds were used for a percentage of this training.

TRAINING, CONFERENCE OR MEETING	DATES	DEPARTMENTAL STAFF
8 Hour HAZWOPER Refresher Training	4/30	Carey, Alexander**
Purchase Card Training	4/7	Carey
HWP All Staff Meetings	5/26, 6/17	Carey, Alexander, Anderson, Drake, Doster*
SLDS Monthly Meeting	5/13	Carey
USEPA Tour of FUSRAP SLDS and NC	6/24	Carey
USACE Open House on Parks	6/24	Carey, Drake, Lamons
Regulator Conference Calls, Bi-Weekly Meetings	4/1, 4/22, 5/20, 6/24	Carey, Drake, Anderson, Alexander